Hazardous Material Tracking at Langley Research Center

Carter Ficklen III, CIH
Mainthia Technologies, Inc
Safety and Mission Assurance
Contract



History of Hazardous Material Tracking at LaRC

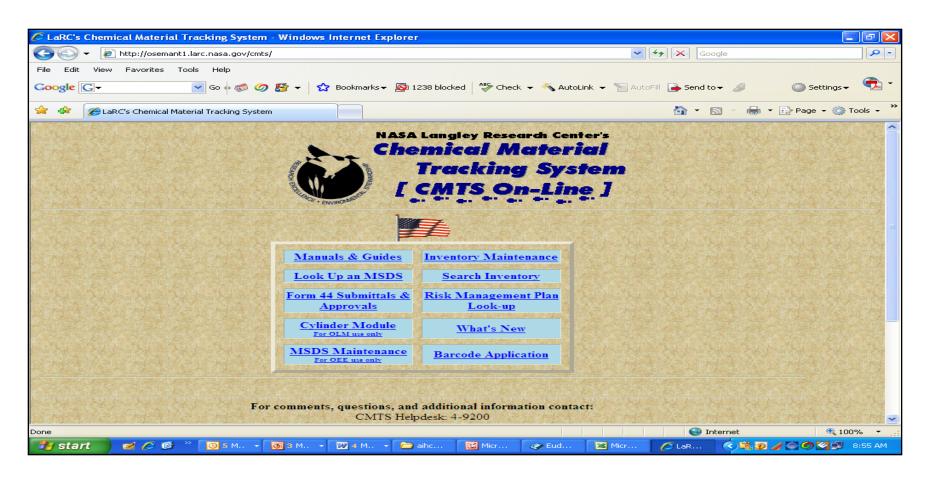


- 80s
 - Chemical Approval with a paper form 44
 - Time consuming.....
 - Lots of opportunity to hustle the system
 - Paper MSDSs
 - Paper inventories
- Mid 90s
 - Web Based Chemical Material Tracking System (CMTS)
 - Still paper inventory and paper MSDSs
 - Needs Assessment in 1994
 - Hand entered MSDSs
- 2000s
 - CMTS system upgraded
 - Greater storage needs
 - More user friendly
 - MSDSs required to be attached
 - User Guide and FAQs
 - Form 44 Coordinator added
 - "Pending Problem"

NASA Langley Form 44 (Rev. Dec. 1986) PREVIO	S EDITIONS ARE OBSOLETE Pre-	scribing Documents LMI 5000.2, 1	700.6 & LHB 1710.1
HAZARDOUS MATERIAL - PROCU INSTRUCTIONS: (1) For Radioactive Material use Lan (3) Attach this form to the Purchase Request. (4) Manager is to fill in all blocks with a dagger "t" a double dagger "t"	ey Form 44Å, "Radiation Hazard Form." (2) he requester is to fill in all blocks with an ast	One hazardous item on a form. erisk ''*'' (5) The Safety	8-18-9
*I. If material is a chemical, indicate degree of hazard in the appropriate block in the diamond: (0) no hazard; (1); (2); (3); or (4) extreme. Health	ROUTING AND APPROVALS		
	1 Nequester		M/S *Extension 184 4420:
	2 *Custodian JO4N POWE 11		
	3 Section or Branch Head's Signature	5-	Date -18-95
	Facility Safety Head's Signature	5	Date -18-95
	5 WMC A Philips Aximum	i U/I Each Requisition -	Deliver to Bldg. No /Z 83
Special Requirements	Procurement Order or Contract No.		
* II. Check box if material is pressurized equipment. *III. Check box if Material Safety Data Sheet (MSDS) is required.	† Transportation & Warehousing Section (Haze Storage) Inventory and Issuance Record-See R	ardous Materials ‡ Storage Localeverse Side	ation
* List Handling Precautions - Include Damaged Containers - A	ditional Remarks for Personnel of the Section:		
Is it safe for personnel of the Transportation & Warehousing	ection to open and inspect shipment?		
Is it safe to store this material overnight in the Transportation	& Warehousing Section?		
Should this material be transferred by special vehicle?	/		
This hazardous material is authorized for use in Building 1990 DATA (MSDS) indicates 70% Si		rithout Safety Manager's approval	h
(P)	T 2-Safety Engineering Branch)		
Name (Generic)	* Name (Trade)	- 24-29 8	Shelf Life
EPOXY	CHOBOND 5	67-27	ACRES AND ADDRESS OF THE PARTY

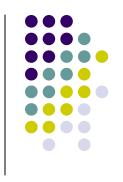
Chemical Material Tracking System





The CMTS is administered by SAIC

Backbone of CMTS



- Administered by SAIC as part of the Environmental Management Team
 - Server lives in the Emergency Operations Center
 - Backup in COD
- SQL Server
- Cold Fusion Web Applications
 - Takes webpages and dumps fields into database
 - Allows us to pull usage reports

What is CMTS?

- The Chemical Material Tracking System
 - 106 inventories
 - 200+ users
 - 21,000+ MSDSs in the electronic library
 - 45,000+ container
 IDs currently tracked
 - every chemical container has its own container ID number and CMTS record.





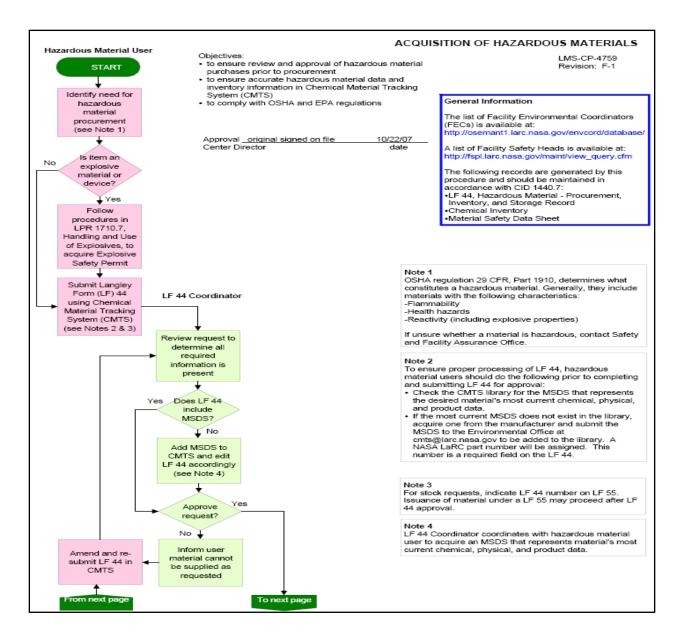




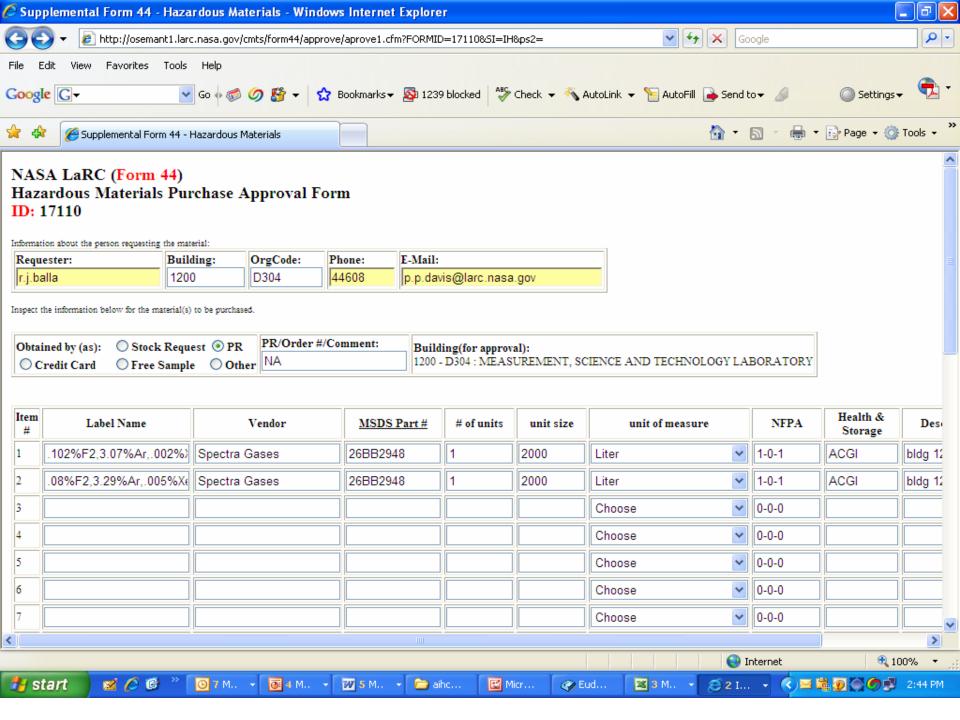
Approval Process

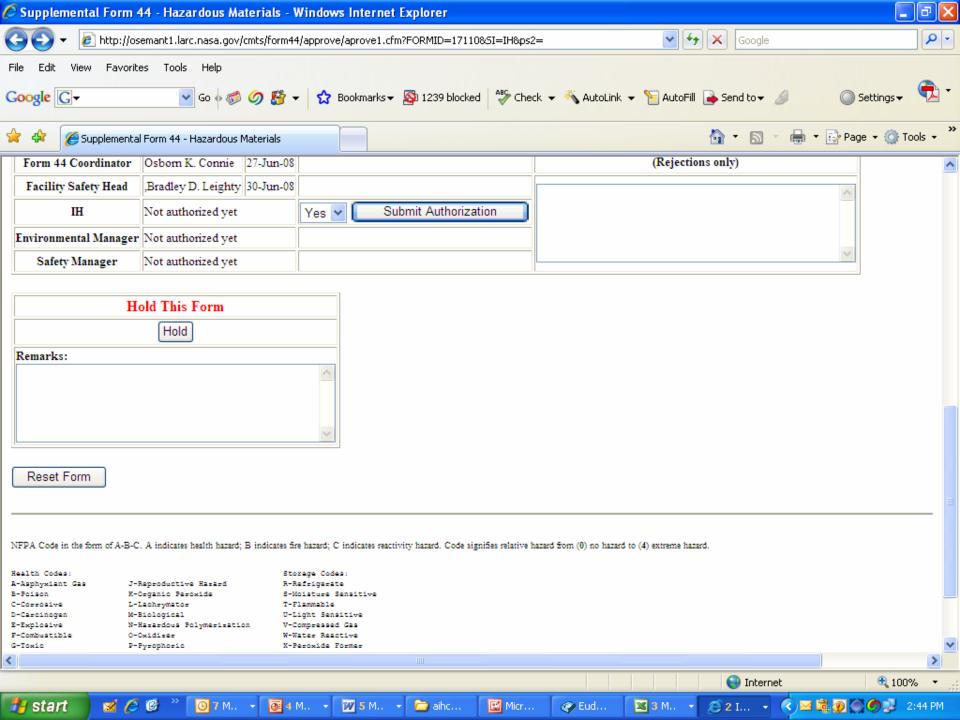
- Purchaser initiates electronic Form 44 submitted via CMTS system
- Form 44 Administrator
 - Checks MSDS attached
- Facility Safety Head
 - from area where items will be used
- Industrial Hygiene
- Environmental Management Team
- Safety Manager

View of the LMS Process



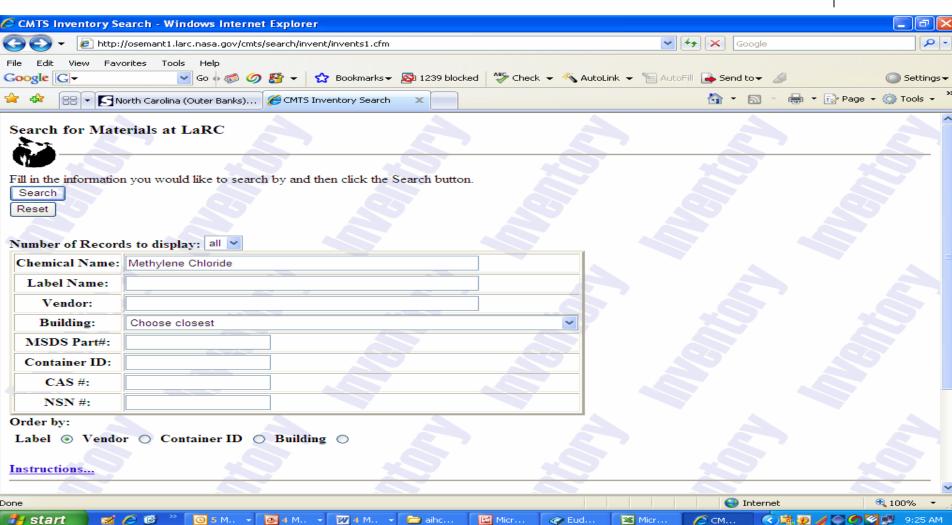






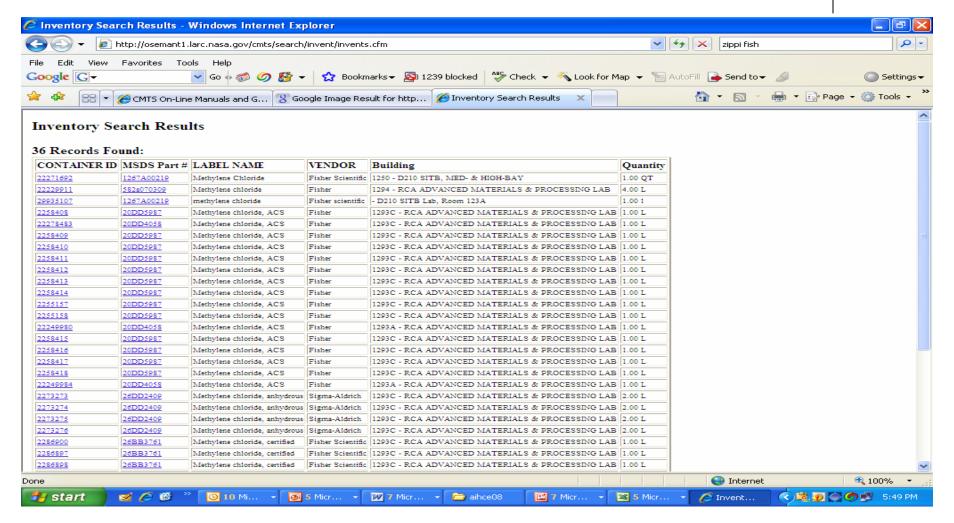
Search Feature





Results From Search





Challenges we have faced

- Getting all facilities to "play"
- Contractor compliance
 - ROME Contract has done an excellent job
 - CMTS participation was written as a requirement in SOW
- Home Depot and Lowes
 - Procurement checking Gov't Credit Cards is helping a bunch in this area
- Turnover in Facility Environmental Coordinator Position
- Vendor samples
- Modifying the CMTS System can be costly
 - It is a custom system.....